

What is claimed is:

- 1 1. A base-station amplifier device for use in amplifying
2 at least one channel to be transmitted from a base station,
3 comprising:
4 amplitude limiting means for amplitude-limiting a
5 base band signal every said channel;
6 high-frequency modulating means for performing a
7 high-frequency modulation on an output from said amplitude
8 limiting means every said channel;
9 adding means for adding outputs from all of said
10 high-frequency modulating means;
11 amplifying means for amplifying an output from said
12 adding means; and
13 amplitude controlling means for controlling said
14 amplitude limiting means based on characteristic of said
15 amplifying means.
- 1 2. A base-station amplifier device as claimed in claim
2 1, wherein said amplitude controlling means controls said
3 amplitude limiting means only when the number of said
4 channels exceeds a preset number.
- 1 3. A base-station amplifier device as claimed in claim
2 1, further comprising detecting means arranged on an input
3 side or an output side of said amplifying means, wherein
4 said amplitude controlling means controls said amplitude
5 limiting means based on characteristic of said amplifying
6 means and output from said detecting means when output from
7 said detecting means exceeds a threshold value based on
8 characteristic of said amplifying means.